ranslation





PCT

519653

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference T02008 PCT	FOR FURTHER ACTION	See Notific Preliminary	cation of Transmittal of International Examination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/n	nonth/year)	Priority date (day/month/year)
PCT/DE2003/002135	26 June 2003 (26.06		28 June 2002 (28.06.2002)
International Patent Classification (IPC) or n G10L 15/18	national classification and IPC		
Applicant	T-MOBILE DEUTSCHLA	AND GMBI	Н
This international preliminary examand is transmitted to the applicant a This REPORT consists of a total of	according to Article 36.		national Preliminary Examining Authority
This report is also accompar amended and are the basis for 70.16 and Section 607 of the	nied by ANNEXES ie sheets o	of the descripti	ion, claims and/or drawings which have been ations made before this Authority (see Rule
This report contains indications rel	lating to the following items:		
I Basis of the report	;		
II Priority			
III Non-establishmen	t of opinion with regard to novel	lty, inventive s	step and industrial applicability
IV Lack of unity of in	vention		
V Reasoned statemer	nt under Article 35(2) with regar anations supporting such stateme	rd to novelty, i	inventive step or industrial applicability;
Contain documents			
Contain defeats in	the international application		
	ons on the international application	ion	
VIII L Certain observation	nis on the international approxim		
Date of submission of the demand	Date	of completion	n of this report
27 January 2004 (27.0	01.2004)	. 04	January 2005 (04.01.2005)
Name and mailing address of the IPEA/E	P Auth	horized officer	
Facsimile No	Tele	ephone No.	



Interna	application No.
PCT	/DE2003/002135

I. Basis (of the rep	ort			
1. With	regard to	the elements of the international application	n:*		Į.
П	the inter	national application as originally filed			
\boxtimes	the desc	ription:			
	pages		1,2,4-9		, as originally filed
	pages				, filed with the demand
	pages	3,3a	, filed with the let	tter of _	29 November 2004 (29.11.2004)
\square	the clair	200			
		ns.			, as originally filed
	pages pages		, as amended	(togethe	er with any statement under Article 19
	pages				, filed with the demand
	pages	10-11 claims 1-5	, filed with the le	tter of _	29 November 2004 (29.11.2004)
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	the drav	-	1/6-6/6		, as originally filed
	pages				, filed with the demand
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	_		,	_	
LJ ¹	the seque	nce listing part of the description:			as originally filed
	pages				, as originally fried
	pages		filed with the le	etter of	, med with the demand
	pages				
tha i	nternationse elemen	o the language, all the elements marked ab nal application was filed, unless otherwise it ts were available or furnished to this Autho	ndicated under this item. rity in the following languag	ge	which is:
▎ٰ		guage of a translation furnished for the purp			Rule 23.1(b)).
! ∐		guage of publication of the international ap			1 1 1 Duly 55 0 and 1
	or 55.3	•			
3. Wit prel	h regard iminary e	to any nucleotide and/or amino acid xamination was carried out on the basis of	sequence disclosed in the sequence listing:	ne intern	ational application, the international
\ <u>\</u>	contai	ned in the international application in writte	n form.		
	filed t	ogether with the international application in	computer readable form.		
		ned subsequently to this Authority in writter			
╎└		ned subsequently to this Authority in compu			
	intern	tatement that the subsequently furnished ational application as filed has been furnished	ed.		
	-	tatement that the information recorded in furnished.	computer readable form is	s identic	al to the written sequence listing has
4.] The a	nendments have resulted in the cancellation	n of:		
		the description, pages			
		the claims, Nos.			
		the drawings, sheets/fig			
5.	This r	eport has been established as if (some of) to the disclosure as filed, as indicated in the	he amendments had not bee Supplemental Box (Rule 70.	en made, .2(c)).**	since they have been considered to go
in and	this repo l 70.17).	sheets which have been furnished to the re rt as "originally filed" and are not ann	exed to this report since	tney ao	not contain amendments (Rule 70.10
		nent sheet containing such amendments mu	st be referred to under item	1 and an	nexed to this report.

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	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
V.	Reasoned statement under Article 33(2) With regard to horsely
	citations and explanations supporting such statement
	Citations and Oxpanions of F

Statement			
Novelty (N)	Claims	1-5	YES
	Claims		NO
Inventive step (IS)	Claims	1-5	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-5	YES
	Claims		NO

2. Citations and explanations

1. Reference is made to the following document:

D1: US-B1-6182039

2. Document D1 is considered the prior art closest to the subject matter of claim 1. D1 discloses (the references in parentheses relate to said document):

A method for natural voice recognition with the steps:

- analysis of a spoken phrase for triphones contained therein and formation of words contained in this phrase (30, 32, 48 and column 5, line 62), and a syntactic reconstruction of the spoken phrase using a grammar (36, 83) and a semantic selection method (38).
- The subject matter of claim 1 differs therefore from that known from document D1 in that the words formed are assigned to word categories (verb, noun, etc.) and the word categories themselves are then assigned to nominal phrases and verbal phrases. The phrases assembled after the input of various sentence models

are considered to be recognised if there is concordance.

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

4. The problem addressed by the present invention can therefore be considered that of indicating a method for voice recognition based on an exact phrase structure grammar which requires fewer system resources and enables a secure and faster recognition whilst reducing overgeneration.

The solution to this problem proposed in claim 1 of the present application involves an inventive step for the following reasons (PCT Article 33(3)): although document D1 mentions a deep structure as a means of reducing overgeneration, it does not disclose how this deep structure is to be used in concrete terms. The solution is therefore novel and non-obvious to a person skilled in the art.

5. Claims 2-5 are dependent on claim 1 and therefore likewise meet the PCT novelty and inventive step requirements.